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 (22)Date of filing : 14.02.1991 (72)Inventor : WOLFF SIEGFRIED
 GOERL UDO
 DEUSSER HANS

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(54) METHOD FOR MODIFYING SURFACE OF FILLER, MODIFIED FILLER AND VULCANIZABLE RUBBER COMPOSITION

(57)Abstract:

PURPOSE: To obtain fillers with storage stability by a method wherein surface modification of oxide or silicate fillers is performed by a two-stage process using specified organosilicone compounds.

CONSTITUTION: A natural or synthetic, oxide or silicate filler (A) is intensively mixed with an organosilicon compd. (B) of formula [wherein B is -SCN (when q=1) or -Sx (when q=2); R and R1 are

each a 1-4C alkyl, a phenyl, etc.; n is 0, 1 or 2; $\left[\sum_{i=1}^n (RC)_j - n \text{ Si} - (A)_m - (Ar)_p \right]_n [D]$

Alk is a 1-6C divalent hydrocarbon; m is 0 or 1;

Ar is a 6-12C arylene; p is 0 or 1; x is 2-8] at a

temp. of 60°C or lower under a concn. of 3.5×10^{-6}

mol or lower trialkoxysilyl group per 1 m² surface

of the ingredient A. Then, hydrophobing reaction

of the homogenized mixture is performed in a

preheated mixer in a reactor such as heat treating

floor at 60°C or higher.

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